

In place of PTO-1449 Form		U. S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE JUL 08 2004 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number		10/797,760	
		Filing Date		March 10, 2004	
		Applicant(s)		McAnalley et al.	
		Art Unit		1664 1655	
		Examiner Name		Unknown	
		Attorney Docket Number		23100.65	
SHEET	1	of	3		

U. S. PATENT DOCUMENTS				
Examiner's Initials	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document

FOREIGN PATENT DOCUMENTS					
Examiner's Initials	Cite No.	Foreign Patent Document (Country Code - Number - Kind)	Publication Date MM-DD-YYYY	Patentee or Applicant of Cited Document	Translation Y/N

OTHER PRIOR ART		
Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item, date, page(s), volume, issue number(s), publisher, city/country, where published
me		Aloe Vera Research - Author unknown, Date of publication, if any, unknown.
		Alton, G et al., Direct utilization of mannose for mammalian glycoprotein biosynthesis, Glycobiology, vol. 8, no. 3, 1998, pages 285-295.
		Bond, A et al., Distinct Oligosaccharide Content of Rheumatoid Arthritis-Derived Immune Complexes, Arthritis & Rheumatism, Vol. 38, No. 6, 1995, pages 744-749.
		Bond, A et al., The relationship between exposed galactose and N-acetylglucosamine residues on IgG in rheumatoid arthritis (RA), juvenile chronic arthritis (JCA) and Sjögren's syndrome (SS) Clin exp Immunol (1996); Vol. 105, pages 99-103.
		Bouic, P et al., Plant Sterols and Sterolins: A Review of Their Immune-Modulating Properties, Alternative Medicine Review, Vol. 4, No. 3, 1999, pages 170-177.
		Chinnah, A et al., Antigen dependent adjuvant activity of a polydispersed β -(1,4)-linked acetylated mannan (acemannan), Vaccine, Vol. 10, No. 8, 1992, Pages 551-557.
		Clamp, J R et al., Study of the Carbohydrate Content of Mucus Glycoproteins from Normal and Diseased Colons, Clinical Science, Vol. 61 (1981), pages 229-234.

Examiner Signature	<i>Michelle C. Flood</i>	Date Considered	8/22/2005
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				Attorney	1655
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mcj		Cuddihy, J et al., The Presence of Total Polysaccharides in Sugar Production and Methods for Reducing Their Negative Effects, Midland Research Laboratories, Inc.; date of publication, if any, unknown.			
		Davis, R, Polysaccharide: The Magic Bullet, Inside Aloe			
		Djeraba, A et al., In vivo macrophage activation in chickens with Acemannan, a complex carbohydrate extracted from Aloe vera, International Journal of Immunopharmacology, Vol. 22 (2000), pages 365-372.			
		Dwek, R A, Glycobiology: The function of sugar in the IgG molecule, Anat., Vol. 187 (1995), pages 279-292.			
		Edwards, C A et al., Viscosity of food gums determined in vitro related to their hypoglycemic actions, Am J Clin Nutr Vol. 46 (1987), pages 72-77.			
		Ercan, N, Effects of Glucose, Galactose, and Lactose Ingestion on the Plasma Glucose and Insulin Response in Persons With Non-Insulin-Dependent Diabetes Mellitus, Metabolism, Vol. 42, No. 12 (1993), pages 1560-1567.			
		Feizi, T, Significance of carbohydrate components of cell surfaces, Autoimmunity and autoimmune disease, Wiley, Chichester (Ciba Foundation Symposium 129); (1987), pages 43-58.			
		Fukuda, M et al., Molecular Glycobiology, Oxford University Press, pages 1-52.			
		Ghoneum, M, Anti-HIV Activity in Vitro of MGN-3, an Activated Arabinoxylane from Rice Bran, Biochemical and Biophysical Research Communications, Vol. 243 (1998), pages 25-29.			
		Hakomori, S, Aberrant Glycosylation in Cancer Cell Membranes as Focused on Glycolipids: Overview and Perspectives, Cancer Research, Vol. 45 (1985), pages 2405-2414.			
		Hara, H et al., Ingestion of Guar Gum Hydrolysate, a Soluble Fiber, Increase Calcium Absorption in Totally Gastrectomized Rats, J. Nutr., Vol. 129 (1999), pages 39-45.			
		Haydu, C et al., Medical Attributes of Aloe vera - The Aloe Plant, Wilkes University (1997), pages 1-8.			
		Ikegami, S et al., Viscous Indigestible Polysaccharides Reduce Accumulation of Pentachlorobenzene in Rats, J. Nutr., Vol. 124 (1994), pages 754-760.			
		Kahlon, J et al., Inhibition of AIDS virus replication by Acemannan in vitro, Mol. Biother., Vol. 3 (1991), pages 127-135.			
		Kelly, G., Larch Arabinogalactan: Clinical Relevance of a Novel Immune-Enhancing Polysaccharide, Altern Med Rev, Vol. 4, No. 2 (1999), pages 96-103.			
		Kidd, P, The Use of Mushroom Glucans and Proteoglycans in Cancer Treatment, Altern Med Rev, Vol. 5, No. 1 (2000), pages 4-27.			
		Knopp, R et al., Long-Term Blood Cholesterol-Lowering Effects of a Dietary Fiber Supplement, Am J Prev Med, Vol. 17, No. 1 (1999), pages 18-23.			
		Landin, K et al., Low blood pressure and blood glucose levels in Alzheimer's disease Evidence for a hypometabolic disorder? J Intern Med, Vol 233 (1993), pages 357-363.			
		Lecière, C et al., Role of viscous guar gums in lowering the glycemic response after a solid meal, Am J Clin Nutr, Vol. 59 (1994), pages 914-21.			
		Malhotra, R et al., Glycosylation changes of IgG associated with rheumatic arthritis can activate complement via mannose-binding protein, Nature Medicine, Vol. 1, No. 3 (1995), pages 237-243.			
		Matsuda, K et al., Inhibitory Effects of Sialic Acid- or N-Acetylglucosamine-Specific Lectins on Histamine Release Induced by Compound 48/80, Bradykinin and a Polyethylenimine in Rat Peritoneal Mast Cells, J. Pharmacol, Vol. 64 (1994) pages 1-8.			
		Olszewski, A et al., Plasma glucosamine and galactosamine in ischemic heart disease, Atherosclerosis, Vol. 82 (1990), pages 75-83.			
		Overton, P D et al., The effects of dietary sugar-beet fibre and guar gum on lipid metabolism in Wistar rats, British Journal of Nutrition, Vol. 72 (1994), pages 385-395.			
		Pelley, R, The Story of Aloe Polysaccharides, Inside Aloe, The International Aloe Science Council, Inc., Jan. 1997.			

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		Examiner Name		Unknown		
SHEET	3	of	3	Attorney Docket Number		23100.65

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mc7		Peng, S Y et al., Decreased mortality of Norman Murine Sarcoma in mice treated with the immunomodulator, Acemannan™, Mol. Biother, Vol. 3 (1991), Pages 79-87.
		Petersen, M et al., Early Manifestation of the Carbohydrate-Deficient Glycoprotein Syndrome, J Pediatr, Vol. 122 (1993), pages 66-70.
		Pugh, N et al., Characterization of Aloeride, a New High-Molecular-Weight Polysaccharide from Aloe Vera with Potent Immunostimulatory Activity, J Agnc Food Chem, Vol. 49 (2001), pages 1030-1034.
		Qiu, Z et al., Modified Aloe barbadensis Polysaccharide with Immunoregulatory Activity, Planta Medica, Vol. 66 (2000), pages 152-156.
		Ramelow, G et al., Uptake of metallic ions from aqueous solution by dried lichen biomass, Microbios, Vol. 66 (1991), pages 95-105.
		Rest, R et al., Mannose Inhibits the Human Neutrophil Oxidative Burst, Journal of Leukocyte Biology, Vol. 43 (1988), pages 158-164.
		Ryan, D et al., GG167 (4-Guanidino-2,4-Dideoxy-2,3-Dehydro-N-Acetylneuraminic Acid) Is a Potent Inhibitor of Influenza Virus in Ferrets, Antimicrobial Agents and Chemotherapy (1995), pages 2583-2584.
		Sampaio, A et al., A Galactose-Specific Lectin from the Red Marine Alga Ptilota Filicina, Phytochemistry, Vol. 48, No. 5 (1998), pages 765-769.
		Sanchez, A et al., Role of sugars in human neutrophilic phagocytosis, Am J Clin Nutr, Vol. 26 (1973), pages 1180-1184.
		Scott, J, Extracellular matrix, supramolecular organisation and shape, J Anat, vol. 187 (1995), pages 259-269.
		Fucoidan Research - Author unknown, Date of publication, if any, unknown.
		Stone, K R, Glucosamine References, Arthritis & Glucosamine Resource Center (2004), pages 1-10.
		Teas, J, The Dietary Intake of Laminaria, a Brown Seaweed, and Breast Cancer Prevention, Nutrition and Cancer, Vol. 4, No. 3 (1983), pages 217-222.
		Theodosakis, J et al., The Arthritis Cure, St. Martin's Press, NY, pages 29-52; date of publication unknown.
		Tizard, I, Aloe-derived carbohydrates reduce inflammation by blocking neutrophil emigration mediated by certain beta2 integrins, Abstract for presentation at IASC Scientific Seminar, Texas A&M University, College Station, Texas; date of publication unknown.
		Tizard, I et al., The biological activities of mannans and related complex carbohydrates, Mol. Biother, Vol. 1, No. 6 (1989), pages 290-296.
		Varki, A, Unusual modifications and variations of vertebrate oligosaccharides: are we missing the flowers for the trees? Glycobiology, Vol. 6, No. 7 (1996), pages 707-710.
		Vlietinck, A J et al., Plant-Derived Leading Compounds for Chemotherapy of Human Immunodeficiency Virus (HIV) Infection, Planta Medica, Vol. 64 (1998), pages 97-109.
		Womble, D et al., Enhancement of Allo-Responsiveness of Human Lymphocytes by Acemannan (CARRISYN™), Int. J Immunopharmac., Vol. 10, No. 8 (1988), pages 967-974.
		Womble, D et al., The Impact of Acemannan on the Generation and Function of Cytotoxic T-Lymphocytes, Immunopharmacology and Immunotoxicology, Vol. 14, Nos 1 and 2 (1992), pages 63-77.
		Zavoral, J et al., "The hypolipidemic effect of locust bean gum food products in familial hypercholesterolemic adults and children, Am J Clin Nutr, Vol. 38 (1983), pages 285-294.
		About Konnyaku, Author unknown, Date of publication, if any, unknown.
		What's Glucomannan, Author unknown, Date of publication, if any, unknown.

Examiner Signature	Michele C. Ford	Date Considered	8/22/2005
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Attorney/Pocket Number	23100.65

SHEET 1 OF 10

U. S. PATENT DOCUMENTS				
Examiner's Initials	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
mcf		3,890,438	6/1975	Cayen et al.
		3,947,601	3/1976	Ortega
		4,260,603	4/1981	Pegel et al.
		4,466,958	8/1984	Morrison
		4,593,046	6/1986	Gruber
		4,665,057	5/1987	Nelson et al.
		4,777,045	10/1988	Vanderveer et al.
		4,837,040	6/1989	Yokoyama et al.
		4,859,488	8/1989	Kan et al.
		4,855,284	8/1989	Emoedi
		4,871,557	10/1989	Linscott
		5,021,560	6/1991	Montreuil et al.
		5,106,616	4/1992	McAnalley et al.
		5,202,122	4/1993	Graves et al.
		5,229,118	7/1993	Campbell
		5,292,729	3/1994	Ashmed
		5,294,434	3/1994	King et al.
		5,296,245 A	03/1994	Clarke et al.
		5,308,838	5/1994	McAnalley et al.
		5,308,618	5/1994	Konno et al.
		5,378,480	1/1995	Carieri
N		5,487,894 A	01/1996	Kovacs, Joseph
		5,523,087 A	06/1996	Shlyankevich, Mark
		5,607,693	3/1997	Bonte et al.
		5,612,039	3/1997	Policappelli et al.
		5,710,270	1/1998	Maeda et al.
		5,827,526	10/1998	Dohnalek et al.

FOREIGN PATENT DOCUMENTS					
Examiner's Initials	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Patentee or Applicant of Cited Document	Translation Y/N
mcf		WO 9506068 A1	03/1995	YAMADA et al.	
		WO 9303727	04/1993	Hilsted	
		JP 57/007,420	1/1982		
		EP 0052171	5/1982		
		JP 59/112,922	6/1984		
		DE 3935906	5/1991		
		WO 91 15214	10/1991		
		JP 03/255,029	11/1991		
		JP 07/242,551	9/1995		
		NZ 299,607	3/1997		
		RU 2097041	11/1997		
		WO 98 06418	2/1998		
N		JP 63294766 A	12/1988	TAMAI, SEIJI	

Examiner Signature	<i>Michelle C. Floyd</i>	Date Considered	8/22/2005
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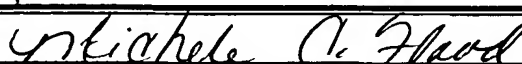
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hct		Citkowitz, E., Developmental Biology (1972), 27: 494-503. "Analysis of the Isolated Hyaline Layer of Sea Urchin Embryos."
		Balch, J.F. et al., "Prescription for Nutritional Healing", 2 nd ed. (1997), Avery Publishing Group(USA), Pg. 7-8, 12-33 and 43-46.
		Bartolome, A.P. et al., J. Agric. Food Chem.(1995), 43: 608-612, "Polysaccharides from the Cell Walls of Pineapple Fruit."
		Alton, Gordon et al., "Direct Utilization of Mannose for Mammalian Glycoprotein Biosynthesis", Glycobiology (1998) 8:3, 285-295.
		Berger, Veronique et al., "Dietary Specific Sugars for Serum Protein Enzymatic Glycosylation in Man", Metabolism (1998) 47:12, 1499-1503.
		Freeze, Hudson, "Disorders in Protein Glycosylation and Protein Therapy: Tip of an Iceberg?" The Journal of Pediatrics (11/1998) 133:5, 593-600.
		Gardiner, Tom et al., "Glyconutritionals: Consolidated Review of Potential Benefits", GlycoScience & Nutrition (7/2001) 2:15, 1-15.
		Martin, A. et al., "Availability of Specific Sugars for Glycoconjugate Biosynthesis: A Need for Further Investigations in Man", Biochimie (1998) 80:1, 75-86.
		Rosalind Kornfeld and Stuart Kornfeld, "Assembly of Asparagine-Linked Oligosaccharides," Ann. Rev. Biochem., 1985, Vol. 54, Pages 631-64.
		Akira Kobata, "Structures and Functions of The Sugar Chains of Glycoproteins," Eur. J. Biochem., 1992, Vol. 209, Pages 483-501.
	UU	Murray et al., Harper's Biochemistry, Appleton & Lange, 1996, Pages 648-49.
		J.H. Cummings et al., "A New Look at Dietary Carbohydrate: Chemistry, Physiology and Health," Eur. J. Clinical Nutrition, 1997, Vol. 51, Pages 417-23.
✓		Alan D. Elbein, "Inhibitors of the Biosynthesis and Processing of N-Linked Oligosaccharide Chains," Ann. Rev. Biochem., 1987, Vol. 56, Pages 497-534.
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mc7		Alan D. Elbein, "Inhibitors of the Biosynthesis and Processing of N-Linked Oligosaccharide Chains," Ann. Rev. Biochem., 1987, Vol. 56, Pages 497-534.
		Richard L. Jackson et al., "Glycosaminoglycans: Molecular Properties, Protein Interactions, and Role in Physiological Processes," Physiological Reviews, 1991, Vol. 71, No. 2, Pages 481-539.
		Arthur D. Lander, "Proteoglycans in the Nervous System," Current Opinion in Neurobiology, 1993, Vol. 3, Pages 716-23.
		Guido David, "Structural and Functional Diversity of the <u>Heparan Sulfate Proteoglycans</u> ," Heparin and Related Polysaccharides, Plenum Press, 1992, Pages 69-78.
		Geraldine McDowell and William A. Gahl, "Inherited Disorders of Glycoprotein Synthesis: Cell Biological Insights," Society for Experimental Biology and Medicine, 1997, Vol. 215, Pages 145-57.
		Leon Carayannopoulos and J. Donald Capra, "Immunoglobulins: Molecular Genetics," <u>Fundamental Immunology</u> , Third Edition, Raven Press, 1993, Pages 302-14.
		Royston Jefferis et al., "Glycosylation Heterogeneity in Human IgG Subclass Proteins," Biochemical Society Transactions, 1998, Vol. 16, Pages 340-41.
		Mi-Hua Tao et al., "Studies of Aglycosylated Chimeric Mouse-Human IgG: Role of Carbohydrate in the Structure and Effector Functions Mediated by the Human IgG Constant Region," The Journal of Immunology, 1989, Vol. 143, Pages 2595-2601.
		Scot Hickman and Stuart Kornfeld, "Effect of Tunicamycin on IgM, IgA, and IgG Secretion By Mouse Plasmacytoma Cells," The Journal of Immunology, 1978, Vol. 121, No. 3, Pages 990-96.
		G. Doria et al., "Age-Dependent Variations of Antibody Avidity," Immunology, 1978, Vol. 35, Pages 601-11.
		Hironori Matsuda et al., "Proton Nuclear Magnetic Resonance Studies of the Structure of the Fc Fragment of Human Immunoglobulin G1: Comparisons of Native and Recombinant Proteins," Molecular Immunology, 1990, Vol. 27, No. 6, Pages 571-79.
		Norio Koide et al., "Recognition of IgG by Fc Receptor and Complement: Effects of Glycosidase Digestion," Biochemical and Biophysical Research Communications, 1977, Vol. 75, No. 4, Pages 838-44.
		John Lund et al., "A Protein Structural Change in Aglycosylated IgG3 Correlates with Loss of huFcγR1 and huFcγR111 Binding And/Or Activation," Molecular Immunology, 1990, Vol. 27, Pages 1145-53.
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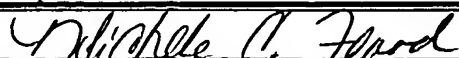
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mct		Johann Deisenhofer et al., "Crystallographic Structural Studies of a Human Fc Fragment," Hoppe-Seyler's Z. Physiol. Chem., 1976, Vol. 357, Pages 1421-1434.
		Jeffrey C. Edberg and Robert P. Kimberly, "Cell Type-Specific Glycoforms of FcγR111a (CD 16)," The American Association of Immunologists, 1997, Pages 3849-57.
		W. Ludo van der Pol and Jan G.J. van de Winkel, "IgG Receptor Polymorphisms: Risk Factors for Disease," Immunogenetics, 1998, Vol. 48, Pages 222-32.
		Kelly P. Kears and Gerald W. Hart, "Topology of O-Linked N-Acetylglucosamine in Murine Lymphocytes," Archives of Biochemistry and Biophysics, November 1991, Vol. 290, No. 2, Pages 543-48.
		M.R. Sairam, "Role of Carbohydrates in Glycoprotein Hormone Signal Transduction," The FASEB Journal, June 1989, Vol. 3, Pages 1915-1926.
		C.A. Wilson et al., "Gonadotrophin glycosylation and function," Journal of Endocrinology, 1990, Vol. 125, Pages 3-14.
		M.R. Sairam et al., "Mechanism of Gonadotropin Action-Dissociation of Receptor Binding and Cellular Activation," Progress in Endocrinology, 1988, Pages 1025-1031.
		Albert S. B. Edge et al., "Insulin Receptor Carbohydrate Units Contain Poly-N-Acetylglucosamine Chains," Endocrinology, 1990, Vol. 127, No. 4, Pages 1887-1895.
		Kim A. Heidenreich et al., "Structural Differences Between Insulin Receptors in the Brain and Peripheral Target Tissues," The Journal of Biological Chemistry, 1983, Vol. 258, No. 14, Pages 8527-8530.
		Elaine Collier et al., "Specific Glycosylation Site Mutations of the Insulin Receptor α Subunit Impair Intracellular Transport," Biochemistry, 1993, Vol. 32, Pages 7818-7823.
		Paola Briata et al., "Glucose Starvation and Glycosylation Inhibitors Reduce Insulin Receptor Gene Expression: Characterization and Potential Mechanism in Human Cells," Biochemical and Biophysical Research Communications, 1990, Vol. 169, No. 2, Pages 397-405.
		Stephen P. Jackson and Robert Tjian, "Purification and Analysis of RNA Polymerase II Transcription Factors by Using Wheat Germ Agglutinin Affinity Chromatography," Proc. Natl. Acad. Sci., USA, March 1989, Vol. 86, Pages 1781-1785.
		Serge Lichtsteiner and Ueli Schibler, "A Glycosylated Liver-Specific Transcription Factor Stimulates Transcription of the Albumin Gene," Cell, 1989, Vol. 57, Pages 1179-1187.
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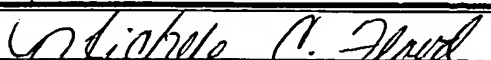
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moj		Rüdiger Göke et al., "Glycosylation of the GLP-1 Receptor Is a Prerequisite for Regular Receptor Function," Peptides, 1994, Vol. 15, No. 4, Pages 675-681.
		David A. Jans et al., "N-Glycosylation Plays a Role in Biosynthesis and Internalization of the Adenylate Cyclase Stimulating Vasopressin V ₂ -Receptor of LLC-PK ₁ Renal Epithelial Cells: An Effect of Concanavalin A on Building and Expression," Archives of Biochemistry and Biophysics, 1992, Vol. 294, No. 1, Pages 64-69.
		Stuart Kornfeld, "Trafficking of Lysosomal Enzymes," The FASEB Journal, 1987, Vol. 1, Pages 462-468.
		Peter Walter et al., "Protein Translocation Across The Endoplasmic Reticulum," Cell, 1984, Vol. 38, Pages 5-8.
		Pauline M. Rudd et al., "Glycoforms Modify the Dynamic Stability and Functional Activity of an Enzyme," Biochemistry, 1994, Vol. 33, Pages 17-22.
		Pauline M. Rudd et al., "The Effects of Variable Glycosylation on the Functional Activities of Ribonuclease, Plasminogen and Tissue Plasminogen Activator," Biochimica et Biophysica Acta, 1995, Vol. 1248, Pages 1-10.
		C.P. Ponting et al., "Plasminogen: A Structural Review,; Blood Coagulation and Fibrinolysis, 1992, Vol. 3, Pages 605-614.
		Mark W. C. Hatton et al., "Catabolism of Plasminogen Glycoforms I and II in Rabbits: Relationship to Plasminogen Synthesis by the Rabbit Liver In Vitro," Metabolism, 1994, Vol. 43, No. 11, Pages 1430-1437.
		Donald J. Davidson et al., "The Influence of the Nature of the Asparagine 289-linked Oligosaccharide on the Activation by Urokinase and Lysine Binding Properties of Natural and Recombinant Human Plasminogens," J. Clin. Invest., July 1993, Vol. 92, Pages 249-254.
		Susan C. Howard et al., "Oligosaccharides at each Glycosylation Site Make Structure-Dependent Contributions to Biological Properties of Human Tissue Plasminogen Activator," Glycobiology, 1991, Vol. 1, No. 4, Pages 411-417.
		Eric Duverger et al., "Sugar-Dependent Nuclear Import of Glycoconjugates from the Cytosol," Experimental Cell Research, 1993, Vol. 207, Pages 197-201.
		Robert S. Haltiwanger et al., "O-Glycoslation of Nuclear and Cytoplasmic Proteins: Regulation Analogous to Phosphorylation?" Biochemical and Biophysical Research Communications, 1997, Vol. 231, No. 2, Pages 237-242.
Examiner Signature		
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				Filing Date	March 10, 2004
				Applicant(s)	McAnalley et al.
				Art Unit	1664 1655
				Examiner Name	Unknown
SHEET	6	of	10	Attorney Docket Number	23100.65

OTHER PRIOR ART		
Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item, date, page(s), volume, issue number(s), publisher, city/country where published
MA		Frank I. Comer and Gerald W. Hart, "Dynamic Glycosylation of RNA Polymerase II," Molecular Biology of the Cell Abstracts, Abstract 2414, 1995, Page 415a.
		Arup Chakraborty et al., "Regulation of eIF-2 α -Subunit Phosphorylation in Reticulocyte Lysate," Biochemistry, 1994, Vol. 33, Pages 6700-6706.
		David M. Kingsley et al., "Reversible Defects in O-Linked Glycosylation and LDL Receptor Expression in a UDP-Gal/UDP-GalNAc 4-Epimerase Deficient Mutant," Cell, March 1986, Vol. 44, Pages 749-759.
		Takashi Yoshida et al., "Altered Function and Structure of Low-Density Lipoprotein Receptor in Compactin (ML236B)-Resistant Mutants of Chinese Hamster Cells," Biochimica et Biophysica Acta, 1987, Vol. 921, Pages 575-586.
		Karen Kozarsky et al., "Use of a Mutant Cell Line to Study the Kinetics and Function of O-Linked Glycosylation of Low Density Lipoprotein Receptors," Proc. Natl. Acad. Sci. USA, 1988, Vol. 85, Pages 4335-4339.
		Kermit L. Carraway et al., "Cell Surface Mucin-Type Glycoproteins and Mucin-Like Domains," Glycobiology, 1991, Vol. 1, No. 2, Pages 131-138.
		Christopher G. Tate and Randy D. Blakely, "The Effect of N-Linked Glycosylation on Activity of the Na ⁺ - and Cl ⁻ Dependent Serotonin Transporter Expressed Using Recombinant Baculovirus in Insect Cells," The Journal of Biological Chemistry, 1994, Vol. 269, No. 42, Pages 26303-26310.
		Malgorzata M. Zaleska and Maris Erecinska, "Involvement of Sialic Acid in High-Affinity Uptake of Dopamine by Synaptosomes from Rat Brain," Neuroscience Letters, 1987, Vol. 82, Pages 107-112.
		Jaak Jaeken et al., "The Carbohydrate-Deficient Glycoprotein Syndromes: Pre-Golgi and Golgi Disorders?" Glycobiology, 1993, Vol. 3, No. 5, Pages 423-428.
		K. Panneerselvam and Hudson H. Freeze, "Mannose Corrects Altered N-Glycosylation in Carbohydrate-Deficient Glycoprotein Syndrome Fibroblasts," J. Clin. Invest., March 1996, Vol. 97, No. 6, Pages 1478-1487.
		Gordon Alton et al., "Oral Ingestion of Mannose Elevates Blood Mannose Levels: A First Step Toward Potential Therapy for Carbohydrate-Deficient Glycoprotein Syndrome Type 1," Biochemical and Molecular Medicine, 1997, Vol. 60, Pages 127-133.
N		Ralf Niehues et al., "Carbohydrate-Deficient Glycoprotein Syndrome Type 1b," J. Clin. Invest., April 1998, Vol. 101, No. 7, Pages 1414-1420.
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SHEET	7	of	10	Attorney Docket Number	23100.65

OTHER PRIOR ART		
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<i>mc</i>		K. Panneerselvam et al., "Abnormal Metabolism of Mannose in Families with Carbohydrate-Deficient Glycoprotein Syndrome Type 1," Biochemical and Molecular Medicine, 1997, Vol. 61, Pages 161-167.
		Taco W. Kuijpers, et al., "Antigen-Specific Immune Responsiveness and Lymphocyte Recruitment In Leukocyte Adhesion Deficiency Type II," International Immunology, 1997, Vol. 9, No. 4, Pages 607-613.
		A. Bond, et al., "The Relationship Between Exposed Galactose And N-Acetylglucosamine Residues On IgG in Rheumatoid Arthritis (RA), Juvenile Chronic Arthritis (JCA) and Sjögren's Syndrome (SS)," Clin. Exp. Immunol., 1996, Vol. 105, Pages 99-103.
		Rajneesh Malhotra, et al., "Glycosylation Changes of IgG Associated with Rheumatoid Arthritis Can Activate Complement Via the Mannose-Binding Protein," Nature Medicine, March 1995, Vol. 1, No. 3, Pages 237-243.
		Katsuko Yamashita, et al., "Altered Glycosylation of Serum Transferrin of Patients with Hepatocellular Carcinoma," The Journal of Biological Chemistry, 1989, Vol. 264, No. 5, Pages 2415-2423.
		D. Biou, et al., "Microheterogeneity of the Carbohydrate Moiety of Human alpha 1-Acid Glycoprotein in Two Benign Liver Diseases: Alcoholic Cirrhosis and Acute Hepatitis," Clinica Chimica Acta, 1989, Vol. 186, Pages 59-66.
		Noriaki Kinoshita, et al., "alpha-Fetoprotein Antibody-Lectin Enzyme Immunoassay to Characterize Sugar Chains for the Study of Liver Diseases," Clinica Chimica Acta, 1989, Vol. 179, Pages 143-152.
		S. Thompson, et al., "Fucosylated forms of alpha-1 antitrypsin that predict unresponsiveness to chemotherapy in ovarian cancer," Br. J. Cancer, 1988, Vol. 58, Pages 589-593.
		S. Thompson and G. A. Turner, "Elevated Levels of Abnormally-Fucosylated Haptoglobins in Cancer Sera," Br. J. Cancer, 1987, Vol. 56, Pages 605-610.
		C. Sekine, et al., "The Reactivity of Alpha-1 Antitrypsin with <i>Lens Culinaris</i> Agglutinin and its Usefulness in the Diagnosis of Neoplastic Diseases of the Liver," Br. J. Cancer, 1987, Vol. 56, Pages 371-375.
		Jiri Mestecky, et al., "Defective Galactosylation and Clearance of IgA1 Molecules as a Possible Etiopathogenic Factor in IgA Nephropathy," IgA Nephropathy: The 25 th Year, 1993, Vol. 104, Pages 172-182.
<i>W</i>		Peter W. Gyves, et al., "Changes in the Sialylation and Sulfation of Secreted Thyrotropin in Congenital Hypothyroidism," Proc. Natl. Acad. Sci. USA, May 1990, Vol. 87, Pages 3792-3796.
Examiner Signature	<i>Nicholas P. Flood</i>	
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Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item, date, page(s), volume, issue number(s), publisher, city/country where published.
mc		Barry P. Peters, et al., "O-Glycosylation of the α -Subunit Does Not Limit the Assembly of Chorionic Gonadotropin $\alpha\beta$ Dimer in Human Malignant and Nonmalignant Trophoblast Cells," Endocrinology, 1989, Vol. 124, No. 4, Pages 1602-1612.
		James M. Roseman, et al., "The Effect of L-Fucose on Rat Mammary Tumor Growth, II <i>In Vitro</i> Studies" Journal of Surgical Oncology, 1971, Vol. 3(1), Pages 79-88.
		Daniel Wolfe, et al., "The Effect of L-Fucose on Rat Mammary Tumor Growth, I. <i>In Vivo</i> Studies" Journal of Surgical Oncology, 1971, Vol. 3(1), pages 73-77.
		F. E. Rosato, et al., "Continuous Intravenous Fucose Treatment of Rat Mammary Tumor," Journal of Surgical Oncology, 1972, Vol. 4, No. 2, Pages 94-101.
		James L. Mullen, et al., "Continuous Intravenous Fucose Therapy in Rat Mammary Cancer II," Journal of Surgical Oncology, 1973, Pages 61-69.
		Ryuichiro Nishimura, et al., "Free α Subunits of Glycoprotein Hormone with Dissimilar Carbohydrates Produced by Pathologically Different Carcinomas," Endocrinol. Japon., 1985, Vol. 32 (4), Pages 463-472.
		Kelly P. Kearse, et al., "Lymphocyte Activation Induces Rapid Changes in Nuclear and Cytoplasmic Glycoproteins," Proc. Natl. Acad. Sci. USA, March 1991, Vol. 88, Pages 1701-1705.
		Gordon D. Holt and Gerald W. Hart, "The Subcellular Distribution of Terminal N-Acetylglucosamine Moieties," 1986, Vol. 261, No. 17, Pages 8049-8057.
		Gerald W. Hart, "The Role of Asparagine-Linked Oligosaccharides in Cellular Recognition by Thymic Lymphocytes," Journal of Biological Chemistry, January 1982, Vol. 257, No. 1, Pages 151-158.
		B. M. Gesner and V. Ginsburg, "Effect of Glycosidases on the Fate of Transfused Lymphocytes," Proceedings of the National Academy of Sciences, September 1964, Vol. 52, No. 3, Pages 750-755.
		Deirdre R. Coombe and Christopher C. Rider, "Lymphocyte Homing Receptors Cloned - a Role for Anionic Polysaccharides in Lymphocyte Adhesion," Immunology Today, 1989, Vol. 10, No. 9, Pages 289-291.
		Timothy A. Springer, "Traffic Signals for Lymphocyte Recirculation and Leukocyte Emigration: The Multistep Paradigm," Cell, January 1994, Vol. 76, Pages 301-314.
▽		Ghislain Opdenakker, et al., "Cells Regulate the Activities of Cytokines by Glycosylation," The FASEB Journal, March 1995, Vol. 9, Pages 456-457.
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mcx		Andrew V. Muchmore and Jean M. Decker, "An Immunosuppressive 85-Kilodalton Glycoprotein Isolated From Human Pregnancy Urine is a High Affinity Ligand for Recombinant Interleukin 1 α ," The Journal of Biological Chemistry, 1986, Vol. 261, No. 29, Pages 13404-13407.			
		Tristram G. Parslow and Dorothy F. Bainton, "Innate Immunity," <u>Medical Immunology</u> , Ninth Edition, 1997, Pages 25-42.			
		Philip H. Petra, et al., "Complete Enzymatic Deglycosylation of Native Sex Steroid-Binding Iprotein (SBP or SHBG) of Human and Rabbit Plasma: Effect on the Steroid-Binding Activity," Protein Science, 1991, Vol. I, Pages 902-909.			
		David R. Joseph, et al., "The Role of Asparagine-Linked Oligosaccharides in the Subunit Structure, Steroid Binding, and Secretion of Androgen-Binding Protein," Molecular Endocrinology, 1992, Pages 1127-1134.			
		Cheryl A. Conover, "Glycosylation of Insulin-Like Growth Factor Binding Protein-3 (IGFBP-3) is not Required for Potentiation of IGF-I Action: Evidence for Processing of Cell-Bound IGFBP-3," Endocrinology, 1991, Vol. 129, No. 6, Pages 3259-3268.			
		Haley E. Melikian, et al., "Inability to N-Glycosylate the Human Norepinephrine Transporter Reduces Protein Stability, Surface Trafficking, and Transport Activity but Not Ligand Recognition," Molecular Pharmacology, 1996, Vol. 50, Pages 266-276.			
		Leon A. Bach, et al., "Human Insulin-Like Growth Factor Binding Protein-6 is O-Glycosylated," Biochemical and Biophysical Research Communications, 1992, Vol. 186, No. 1, Pages 301-307.			
		L. R. Berghman, et al., "Disappearance Rate of Glycosylated and Non-Glycosylated Chicken Growth Hormone: Influence on Biological Activity," Comp. Biochem. Physiol., 1994, Vol. 108C, No. 2, Pages 161-169.			
		Sue M. Firth and Robert C. Baxter, "The Role of Glycosylation in the Action of IGFBP-3," P rogress in Growth Factor Research, 1995, Vol. 6, Nos. 2-4, Pages 223-229.			
		Patrick L. Storrang, "Assaying Glycoprotein Hormones - the Influence of Glycosylation on Immunoreactivity," TBTech, December 1992, Vol. 10, Pages 427-432.			
		Jacques U. Baenziger, "Editorial: Glycosylation: To What End for the Glycoprotein Hormones?" Endocrinology, 1996, Vol. 137, No. 5, Pages 1520-1522.			
		Bruce D. Weintraub, "TSH Immunoassay: Relationship Between Glycosylation & Bioactivity," Nucl. Med. Biol., 1990, Vol. 17, No. 7, Pages 657-660.			
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mdf		John W. Cassels, et al., "Reduced Metabolic Clearance of Acidic Variants of Human Chriogonadotropin From Patients With Testicular Cancer," Cancer, 1989, Vol. 64, Pages 2313-2318.
		Wolfgang Jelkmann, "Erythropoietin: Structure, Control of Production, and Function," Physiological Reviews, April 1992, Vol. 72, No. 2, Pages 449-489.
		Alfredo Ulloa-Aguirre, et al., "Immunological and Biological Potencies of the Different Molecular Species of Gonadotrophins," Human Reproduction, 1988, Vol. 3, No. 4, Pages 491-501.
		Eric D. Green and Jacques U. Baenziger, "Asparagine-Linked Oligosaccharides on Lutropin, Follitropin, and Thyrotropin," The Journal of Biological Chemistry, 1988, Vol. 263, No. 1, Pages 36-44.
		Eric D. Green, et al., "Differential processing of Asn-Linked Oligosaccharides on Pituitary Glycoprotein Hormones: Implications for Biologic Function," Molecular and Cellular Biochemistry, 1986, Vol. 72, Pages 81-100.
		L. S1. Haro, et al., "Glycosylated Human Prolactin: Alterations in Glycosylation Pattern Modify Affinity for Lactogen Receptor and Values in Prolactin Radioimmunoassay," Journal of Clinical Endocrinology and Metablism, 1990, Vol. 71, No. 2, Pages 379-383.
		Masa-aki-Hattori, et al., "Sialic Acid Moiety is Responsible for the Charge Heterogeneity and the Biological Potency of Rat Lutropin," Biochemical and Biophysical Research Communications, March 1985, Vol. 127, No. 2, Pages 501-508.
△		Eylard V. Van Hall, et al., "Immunological and Biological Activity of HCG Following Progressive Desialylation," February 1971, Vol. 88, Pages 456-464.
Examiner Signature	mrflood	
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